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EXHIBITS

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1: NM_005226. Homo sapiens endo...

Related Sequences, OMIM, Protein, PubMed, Taxonomy,
LinkOut

[gi:4885194]

LOCUS N4_005226 1137 bp mRNA linear PRI 16-NOV-2000
DEFINITION Homo sapiens endothelial differentiation, sphingolipid G-protein-coupled receptor, 3 (EDG3), mRNA.
ACCESSION N4_005226
VERSION N4_005226.1 GI:4885194
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1137)
AUTHORS Yimaguchi,F., Tokuda,M., Hatase,O. and Brenner,S.
TITLE Molecular cloning of the novel human G protein-coupled receptor (GPCR) gene mapped on chromosome 9
JOURNAL Biochem. Biophys. Res. Commun. 227 (2), 608-614 (1996)
MEDLINE 97032811
PUBMED 8378560
REFERENCE 2 (bases 1 to 1137)
AUTHORS Ai,S., Bleu,T., Huang,W., Hallmark,O.G., Coughlin,S.R. and Goetzl,E.J.
TITLE Identification of cDNAs encoding two G protein-coupled receptors for lysosphingolipids
JOURNAL FEBS Lett. 417 (3), 279-282 (1997)
MEDLINE 93072391
PUBMED 9109733
REFERENCE 3 (bases 1 to 1137)
AUTHORS Ancellin,N. and Hla,T.
TITLE Differential pharmacological properties and signal transduction of the sphingosine 1-phosphate receptors EDG-1, EDG-3, and EDG-5
JOURNAL J. Biol. Chem. 274 (27), 18997-19002 (1999)
MEDLINE 93315836
PUBMED 10383399
REFERENCE 4 (bases 1 to 1137)
AUTHORS Spiegel,S.
TITLE Sphingosine 1-phosphate: a ligand for the EDG-1 family of G-protein-coupled receptors
JOURNAL Ann. N. Y. Acad. Sci. 905, 54-60 (2000)
MEDLINE 20278382
PUBMED 10818441
REFERENCE 5 (bases 1 to 1137)
AUTHORS Hla,T., Lee,M.J., Ancellin,N., Thangada,S., Liu,C.H., Kluk,M., Ciae,S.S. and Wu,M.T.
TITLE Sphingosine-1-phosphate signaling via the EDG-1 family of G-protein-coupled receptors
JOURNAL Ann. N. Y. Acad. Sci. 905, 16-24 (2000)
MEDLINE 20278379

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PUBMED 10818438
 REFERENCE 6 (bases 1 to 1137)
 AUTHORS H.ummel, H.M., Meyer Zu Heringdorf, D., Graf, E., Dobrev, D., Kortner, A., Schuler, S., Jakobs, K.H. and Ravens, U.
 TITLE Evidence for Edg-3 receptor-mediated activation of I(K.ACh) by sphingosine-1-phosphate in human atrial cardiomyocytes
 JOURNAL Mol. Pharmacol. 58 (2), 449-454 (2000)
 MEDLINE 20368609
 PUBMED 1908314
 COMMENT REVIEWED REFSEQ: This record has been curated by NCBI staff. The reference sequence was derived from X83864.1.
 Summary: This gene encodes a member of the family I of the G protein-coupled receptors, as well as the EDG family of proteins. This protein has been identified as a functional receptor for sphingosine 1-phosphate and likely contributes to the regulation of angiogenesis and vascular endothelial cell function.

FEATURES	Location/Qualifiers
source	1..1137 /organism="Homo sapiens" /db_xref="taxon:9606" /chromosome="9" /map="9q22.1-q22.2"
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misc feature	166..720 /note="7tm_1; Region: 7 transmembrane receptor (rhodopsin family)"
misc feature	697..894 /note="7tm_1; Region: 7 transmembrane receptor (rhodopsin family)"
BASE COUNT	226 a 362 c 298 g 251 t
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Goetzl

EDG-3

primer 1

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//

Goetzl EDG-3

primer 2 in an

antisense orientation

Revised: October 24, 2001.

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